CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/CEMENT/2015-16

Date: 08.04.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** AGENCY**	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
*** NAME OF THE WORK**	:	Special Repairs to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	06.04.2015
PERIOD OF TESTING	:	06.04.2015 to 08.04.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

* Information is furnished by the Customer/Representative

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VISHWANATH. I.A.
Chief Executive Officer

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ಟಿ.ಎಸ್.ಎಂ ರಸ್ತೆ, ರಮಣಶ್ರೀನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/SAND-Gradation/2015-16 : 08.04.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Surendra,**
No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.

*** Name of Work** : Special Repairs to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.04.2015

Date of Testing : 08.04.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.48	90-100	90-100	90-100	95-100
2.36	80.74	60-95	75-100	85-100	95-100
1.18	60.49	30-70	55-90	75-100	90-100
600 Micron	29.23	15-34	35-59	60-79	80-100
300 Micron	14.34	5-20	8-30	12-40	15-50
150 Micron	7.08	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/AGG/GR/2015-16 : 08.04.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Surendra,**
No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.

*** Name of Work** : Special Repairs to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.04.2015

Date of Testing : 08.04.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.75	95-100	85-100
20	54.15	30-70	0-20
10	28.40	10-35	0-5
4.75	4.10	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/AGG/GR/2015-16 : 08.04.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Surendra,**
No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.

*** Name of Work** : Special Repaira to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 06.04.2015

Date of Testing : 08.04.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.72	95-100	85-100
10	33.18	25-55	0-20
4.75	4.02	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/CC Solid Block/2015-16 : 10.04.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
* Name of the Work	: Special Repaira to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015
Sample Received on	: 06.04.2015
Date of Testing	: 10.04.2015
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	26.58	193.8	3.23	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	25.47	195.3	3.26	
3	Block 3	25.36	196.7	3.28	
4	Block 4	26.87	193.8	3.23	
5	Block 5	25.42	194.2	3.24	
6	Block 6	25.87	193.4	3.22	
7	Block 7	26.58	196.7	3.28	
8	Block 8	25.63	198.5	3.31	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/CUBE/2015-16 27.06.2015

TEST REPORT ON COMPRESSIVE STRENGHT OF CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.
* Name of the work	: Special Repairs to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 30.05.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2015	27.06.2015	8.247	487.3	21.66
2	30.05.2015	27.06.2015	8.365	502.4	22.33
3	30.05.2015	27.06.2015	8.478	516.8	22.97

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR.4/808d/CUBE/2015-16 29.06.2015

TEST REPORT ON COMPRESSIVE STRENGHT OF CONCRETE CUBES

*** Client** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Surendra,**
No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560 079.

*** Name of the work** : Special Repairs to Samudhaya Bhavana at Abbigere in Ward No.12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 06.04.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as o : 28th day

Sample Received on : 01.06.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2015	29.06.2015	8.194	506.5	22.51
2	01.06.2015	29.06.2015	8.256	519.7	23.10
3	01.06.2015	29.06.2015	8.372	528.2	23.48

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